

EAST Search History

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|------|--|---|------------------|---------|---------------------|
| | | 379/406.02,406.06.ccl.s | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/05/23 22:00 |
| L1 | 6 | ("5268834" "6195430" "6532454").PN. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/05/23 21:56 |
| L2 | 3261 | (car vehicle) and speaker and amplifier and phone and (cd dvd tape tuner) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/05/23 21:56 |
| L3 | 110 | (car vehicle) and (speaker same amplifier same phone same (cd dvd tape tuner)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/05/23 21:56 |
| L4 | 40 | (car vehicle) and (speaker with amplifier with phone with (cd dvd tape tuner)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/05/23 21:56 |
| L5 | 4 | L4 and echo | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/05/23 21:56 |
| L6 | 40 | (car vehicle automobile) and (speaker with amplifier with phone with (cd dvd tape tuner)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/05/23 21:56 |
| L7 | 2067 | audio with mixer with (amplifi\$5) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/05/23 21:56 |

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| L8 | 254 | (audio with mixer with (amplifi\$5)).ab. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/05/23 21:56 |
| L9 | 57 | (audio with mixer with (amplifi\$5)).ti. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/05/23 21:56 |
| L10 | 14 | (audio with mixer with (amplifi\$5) and (car vehicle automobile)).ab. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/05/23 21:56 |
| L11 | 11687 | (echo with cancel\$3) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/05/23 21:56 |
| L12 | 91 | (echo with cancel\$3 with cascad\$4) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/05/23 21:56 |
| L13 | 0 | L12 and ((noise echo) with supress\$4) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/05/23 21:56 |
| L14 | 0 | L12 and ((noise echo) same supress\$4) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/05/23 21:56 |
| L15 | 26 | L11 and ((noise echo) same supress\$4) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/05/23 21:56 |
| L16 | 7 | L11 and ((noise) with supress\$4) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/05/23 21:56 |

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| L17 | 33 | (echo with cancel\$3 with cascad\$4) and (noise with (filter\$3 suppress\$4)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/05/23 21:56 |
| L18 | 15 | "non\$linear spectral subtraction" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/05/23 21:56 |
| L19 | 421 | nlss | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/05/23 21:56 |
| L20 | 1 | L11 and L19 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/05/23 21:56 |
| L21 | 3 | L19 and (adaptive with filter \$3) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/05/23 21:56 |
| L22 | 3 | L19 and (voice with noise) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/05/23 21:56 |
| L23 | 29 | L19 and ((background environmental) with noise) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/05/23 21:56 |
| L24 | 3 | nlss with noise | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/05/23 21:56 |
| L25 | 0 | L19 and ((background environmental) with noise with suppress) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/05/23 21:56 |

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| L26 | 99 | L11 and((background environmental) with noise with suppress) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/05/23 21:56 |
| L27 | 3 | L11 and((background environmental) with noise with suppress with advantage) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/05/23 21:56 |
| L28 | 122 | (echo with cancel\$3) same ((background environmental) with noise with suppress\$4) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/05/23 21:56 |
| L29 | 52 | L28 and microphone and speaker | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/05/23 21:56 |
| L30 | 188 | (echo with cancel\$3) same ((background environmental) with noise with (suppress\$4 filter\$4)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/05/23 21:56 |
| L31 | 96 | L30 and microphone and speaker | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/05/23 21:56 |
| L32 | 201 | (echo with cancel\$3) same ((background environmental) with noise with (suppress\$4 filter\$4 remov\$4)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/05/23 21:56 |
| L33 | 103 | L32 and microphone and speaker | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/05/23 21:56 |
| L34 | 147404 | "455"/\$.ccls. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/05/23 21:56 |

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| L35 | 3266 | L34 and \$4phone with gps | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/05/23 21:56 |
| L36 | 35 | L34 and (\$4phone with gps with advantage) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/05/23 21:56 |
| L37 | 40 | (car vehicle) and (speaker with amplifier with phone with (cd dvd tape tuner)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/05/23 21:56 |
| L38 | 4 | L37 and echo | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/05/23 21:56 |
| L39 | 14 | (audio with mixer with (amplifi\$5) and (car vehicle automobile)).ab. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/05/23 21:56 |
| L40 | 57 | (audio with mixer with (amplifi\$5)).ti. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/05/23 21:56 |
| L41 | 40 | (car vehicle automobile) and (speaker with amplifier with phone with (cd dvd tape tuner)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/05/23 21:56 |
| L42 | 3261 | (car vehicle) and speaker and amplifier and phone and (cd dvd tape tuner) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/05/23 21:56 |
| L43 | 110 | (car vehicle) and (speaker same amplifier same phone same (cd dvd tape tuner)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/05/23 21:56 |

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| L44 | 6 | ("5268834" "6195430" "6532454").PN. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/05/23 21:56 |
| L45 | 254 | (audio with mixer with (amplifi\$5)).ab. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/05/23 21:56 |
| L46 | 2067 | audio with mixer with (amplifi\$5) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/05/23 21:56 |
| L47 | 11687 | (echo with cancel\$3) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/05/23 21:56 |
| L48 | 26 | L47 and ((noise echo) same supress\$4) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/05/23 21:56 |
| L49 | 15 | "non\$linear spectral subtraction" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/05/23 21:56 |
| L50 | 7 | L47 and ((noise) with supress\$4) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/05/23 21:56 |
| L51 | 421 | nlss | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/05/23 21:56 |
| L52 | 1 | L47 and L51 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/05/23 21:56 |

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| L53 | 33 | (echo with cancel\$3 with cascad\$4) and (noise with (filter\$3 suppress\$4)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/05/23 21:56 |
| L54 | 3 | L51 and (voice with noise) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/05/23 21:56 |
| L55 | 91 | (echo with cancel\$3 with cascad\$4) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/05/23 21:56 |
| L56 | 3 | L51 and (adaptive with filter \$3) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/05/23 21:56 |
| L57 | 3 | nlss with noise | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/05/23 21:56 |
| L58 | 29 | L51 and ((background environmental) with noise) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/05/23 21:56 |
| L59 | 0 | L55 and ((noise echo) with supress\$4) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/05/23 21:56 |
| L60 | 0 | L55 and ((noise echo) same supress\$4) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/05/23 21:56 |
| L61 | 0 | L51 and ((background environmental) with noise with suppress) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/05/23 21:56 |

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| L62 | 99 | L47 and((background environmental) with noise with suppress) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/05/23 21:56 |
| L63 | 122 | (echo with cancel\$3) same ((background environmental) with noise with suppress\$4) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/05/23 21:56 |
| L64 | 201 | (echo with cancel\$3) same ((background environmental) with noise with (suppress\$4 filter\$4 remov\$4)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/05/23 21:56 |
| L65 | 3 | L47 and((background environmental) with noise with suppress with advantage) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/05/23 21:56 |
| L66 | 188 | (echo with cancel\$3) same ((background environmental) with noise with (suppress\$4 filter\$4)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/05/23 21:56 |
| L67 | 52 | L63 and microphone and speaker | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/05/23 21:56 |
| L68 | 103 | L64 and microphone and speaker | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/05/23 21:56 |
| L69 | 96 | L66 and microphone and speaker | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/05/23 21:56 |
| L70 | 147404 | "455"/\$.ccls. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/05/23 21:56 |

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| L71 | 35 | L70 and (\$4phone with gps with advantage) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/05/23 21:56 |
| L72 | 3266 | L70 and \$4phone with gps | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/05/23 21:56 |
| L73 | 118 | (erl or "echo return loss") with attenuat\$4 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/05/23 21:56 |
| L74 | 61 | L73 and(double\$talk "double talk") | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/05/23 21:56 |
| L75 | 34 | L73 and ((double\$talk "double talk") with attenuat \$4) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/05/23 21:56 |
| L76 | 9 | (US-20050246171-\$ or US-20040078104-\$ or US-20030235294-\$).did. or (US-5563944-\$ or US-5646991-\$ or US-6420975-\$ or US-6891954-\$ or US-6873704-\$ or US-6122506-\$ or US-6282176-\$).did. | US-PGPUB; USPAT | OR | OFF | 2009/05/23 21:56 |
| L77 | 2 | L76 and (ratio with erl\$2) | US-PGPUB; USPAT | OR | ON | 2009/05/23 21:56 |
| L78 | 1 | L76 and (ratio with serl\$2) | US-PGPUB; USPAT | OR | ON | 2009/05/23 21:56 |
| L79 | 2 | L76 and (ratio with (serl\$2 erl\$2)) | US-PGPUB; USPAT | OR | ON | 2009/05/23 21:56 |
| L80 | 0 | L76 and (serle with double \$talk) | US-PGPUB; USPAT | OR | ON | 2009/05/23 21:56 |
| L81 | 0 | L76 and (serle with "double talk") | US-PGPUB; USPAT | OR | ON | 2009/05/23 21:56 |
| L82 | 4 | erle and failsafe | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/05/23 21:56 |

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| L83 | 3 | ("5268834" "6195430" "6532454").PN. | USPAT | OR | OFF | 2009/05/23 21:56 |
| L84 | 4 | ("5009472" "5353348" "5365583" "5668871").PN. | USPAT | OR | OFF | 2009/05/23 21:56 |
| L85 | 1670 | 379/406.01-406.16.ccls. | USPAT | OR | OFF | 2009/05/23 21:56 |
| L86 | 1 | L85 and "non\$linear spectral subtraction" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/05/23 21:56 |
| L87 | 366 | L85 and ((background environmental) with noise) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/05/23 21:56 |
| L88 | 0 | L85 and \$4phone with gps | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/05/23 21:56 |
| L89 | 869 | 381/71.1-71.14.ccls. | USPAT | OR | OFF | 2009/05/23 21:56 |
| L90 | 0 | L89 and "non\$linear spectral subtraction" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/05/23 21:56 |
| L91 | 18 | L89 and L85 and ((background environmental) with noise) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/05/23 21:56 |
| L92 | 0 | L89 and \$4phone with gps | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/05/23 21:56 |
| L93 | 287 | 381/66.ccls. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/05/23 21:56 |
| L94 | 0 | L89 and L85 and fail\$safe | USPAT | OR | OFF | 2009/05/23 21:56 |

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| L95 | 13 | (echo adj cancel\$5) and fail \$safe | USPAT | OR | OFF | 2009/05/23 21:56 |
| L96 | 6 | ("5687229" "7046794" "7099458").pn. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/05/23 21:56 |
| L97 | 0 | "2005/0129223" and "wo97/07624" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/05/23 21:56 |
| L98 | 0 | "2005/0129223" or "wo97/07624" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/05/23 21:56 |
| L99 | 2 | "20050129223" or "wo9707624" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/05/23 21:56 |
| L100 | 346 | 379/406.02,406.06.ccls. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/05/23 22:01 |
| L101 | 37 | 379/406.02,406.06.ccls. | US-PGPUB | OR | ON | 2009/05/23 22:01 |
| L102 | 2 | piket.in. and owens.in. and springfield.in. | US-PGPUB | OR | ON | 2009/05/23 22:13 |
| S5 | 6 | ("5268834" "6195430" "6532454").PN. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/06/12 09:45 |
| S6 | 2014 | (car vehicle) and speaker and amplifier and phone and (cd dvd tape tuner) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/06/12 09:46 |
| S7 | 86 | (car vehicle) and (speaker same amplifier same phone same (cd dvd tape tuner)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/06/15 05:02 |

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| S8 | 31 | (car vehicle) and (speaker with amplifier with phone with (cd dvd tape tuner)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/06/12 09:52 |
| S9 | 4 | S8 and echo | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/06/12 09:47 |
| S10 | 31 | (car vehicle automobile) and (speaker with amplifier with phone with (cd dvd tape tuner)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/06/12 09:52 |
| S11 | 1889 | audio with mixer with (amplifi\$5) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/06/12 09:57 |
| S12 | 238 | (audio with mixer with (amplifi\$5)).ab. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/06/14 01:14 |
| S13 | 44 | (audio with mixer with (amplifi\$5)).ti. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/06/12 09:58 |
| S14 | 12 | (audio with mixer with (amplifi\$5) and (car vehicle automobile)).ab. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/06/12 10:00 |
| S15 | 10256 | (echo with cancel\$3) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/06/14 03:12 |
| S16 | 91 | (echo with cancel\$3 with cascad\$4) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/06/14 02:05 |

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| S17 | 0 | S16 and ((noise echo) with supress\$4) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/06/14 01:17 |
| S18 | 0 | S16 and ((noise echo) same supress\$4) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/06/14 01:17 |
| S19 | 25 | S15 and ((noise echo) same supress\$4) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/06/14 01:17 |
| S20 | 6 | S15 and ((noise) with supress\$4) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/06/14 01:17 |
| S21 | 33 | (echo with cancel\$3 with cascad\$4) and (noise with (filter\$3 suppress\$4)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/06/14 02:34 |
| S22 | 14 | "non\$linear spectral subtraction" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/06/17 17:00 |
| S23 | 347 | nlss | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/06/14 02:45 |
| S24 | 1 | S15 and S23 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/06/14 02:35 |
| S25 | 3 | S23 and (adaptive with filter \$3) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/06/14 02:37 |

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| S26 | 3 | S23 and (voice with noise) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/06/14 02:43 |
| S27 | 27 | S23 and ((background environmental) with noise) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/06/17 17:01 |
| S28 | 2 | nlss with noise | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/06/14 02:45 |
| S29 | 0 | S23 and ((background environmental) with noise with suppress) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/06/14 02:53 |
| S30 | 78 | S15 and((background environmental) with noise with suppress) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/06/14 02:58 |
| S31 | 1 | S15 and((background environmental) with noise with suppress with advantage) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/06/14 02:59 |
| S32 | 95 | (echo with cancel\$3) same ((background environmental) with noise with suppress\$4) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/06/14 03:17 |
| S33 | 38 | S32 and microphone and speaker | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/06/14 03:17 |
| S34 | 145 | (echo with cancel\$3) same ((background environmental) with noise with (suppress\$4 filter\$4)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/06/14 03:18 |

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|-----|--------|--|---|----|-----|---------------------|
| S35 | 72 | S34 and microphone and speaker | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/06/14 03:19 |
| S36 | 158 | (echo with cancel\$3) same ((background environmental) with noise with (suppress\$4 filter\$4 remov\$4)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/06/14 03:19 |
| S37 | 79 | S36 and microphone and speaker | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/06/14 03:19 |
| S38 | 123460 | "455"/\$.ccls. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/06/14 18:01 |
| S39 | 2084 | S38 and \$4phone with gps | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/06/14 18:02 |
| S40 | 31 | S38 and (\$4phone with gps with advantage) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/06/14 18:03 |
| S41 | 31 | (car vehicle) and (speaker with amplifier with phone with (cd dvd tape tuner)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/06/15 00:33 |
| S42 | 4 | S41 and echo | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/06/15 00:33 |
| S43 | 12 | (audio with mixer with (amplifi\$5) and (car vehicle automobile)).ab. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/06/15 00:33 |

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| S44 | 44 | (audio with mixer with (amplifi\$5)).ti. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/06/15 00:33 |
| S45 | 31 | (car vehicle automobile) and (speaker with amplifier with phone with (cd dvd tape tuner)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/06/15 00:33 |
| S46 | 2022 | (car vehicle) and speaker and amplifier and phone and (cd dvd tape tuner) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/06/15 00:33 |
| S47 | 86 | (car vehicle) and (speaker same amplifier same phone same (cd dvd tape tuner)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/06/15 00:33 |
| S48 | 6 | ("5268834" "6195430" "6532454").PN. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/06/15 00:33 |
| S49 | 238 | (audio with mixer with (amplifi\$5)).ab. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/06/15 00:33 |
| S50 | 1890 | audio with mixer with (amplifi\$5) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/06/15 00:33 |
| S51 | 10256 | (echo with cancel\$3) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/06/15 00:33 |
| S52 | 25 | S51 and ((noise echo) same supress\$4) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/06/15 00:33 |

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| S53 | 14 | "non\$linear spectral subtraction" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/06/15 00:33 |
| S54 | 6 | S51 and ((noise) with supress\$4) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/06/15 00:33 |
| S55 | 347 | nlss | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/06/15 00:33 |
| S56 | 1 | S51 and S55 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/06/15 00:33 |
| S57 | 33 | (echo with cancel\$3 with cascaded\$4) and (noise with (filter\$3 suppress\$4)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/06/15 00:33 |
| S58 | 3 | S55 and (voice with noise) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/06/15 00:33 |
| S59 | 91 | (echo with cancel\$3 with cascaded\$4) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/06/15 00:33 |
| S60 | 3 | S55 and (adaptive with filter \$3) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/06/15 00:33 |
| S61 | 2 | nlss with noise | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/06/15 00:33 |

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|-----|-----|--|---|----|----|---------------------|
| S62 | 27 | S55 and ((background environmental) with noise) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/06/15 00:33 |
| S63 | 0 | S59 and ((noise echo) with supress\$4) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/06/15 00:33 |
| S64 | 0 | S59 and ((noise echo) same supress\$4) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/06/15 00:33 |
| S65 | 0 | S55 and ((background environmental) with noise with suppress) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/06/15 00:33 |
| S66 | 78 | S51 and((background environmental) with noise with suppress) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/06/15 00:33 |
| S67 | 95 | (echo with cancel\$3) same ((background environmental) with noise with suppress\$4) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/06/15 00:33 |
| S68 | 158 | (echo with cancel\$3) same ((background environmental) with noise with (suppress\$4 filter\$4 remov\$4)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/06/15 00:33 |
| S69 | 1 | S51 and((background environmental) with noise with suppress with advantage) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/06/15 00:33 |
| S70 | 145 | (echo with cancel\$3) same ((background environmental) with noise with (suppress\$4 filter\$4)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/06/15 00:33 |

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|-----|--------|---|---|----|-----|---------------------|
| S71 | 38 | S67 and microphone and speaker | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/06/15 00:33 |
| S72 | 79 | S68 and microphone and speaker | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/06/15 00:33 |
| S73 | 72 | S70 and microphone and speaker | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/06/15 00:33 |
| S74 | 123460 | "455"/\$.ccls. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/06/15 00:33 |
| S75 | 31 | S74 and (\$4phone with gps with advantage) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/06/15 00:37 |
| S76 | 2084 | S74 and \$4phone with gps | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/06/17 17:01 |
| S77 | 92 | (erl or "echo return loss") with attenuat\$4 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/06/15 00:38 |
| S78 | 51 | S77 and(double\$talk "double talk") | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/06/15 00:38 |
| S79 | 27 | S77 and ((double\$talk "double talk") with attenuat\$4) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/06/15 00:38 |

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| S80 | 10 | (US-20050246171-\$ or US-20040078104-\$ or US-20030235294-\$).did. or (US-5563944-\$ or US-5646991-\$ or US-6420975-\$ or US-6891954-\$ or US-6873704-\$ or US-6122506-\$ or US-6282176-\$).did. | US-PGPUB; USPAT | OR | OFF | 2007/06/15 03:38 |
| S81 | 2 | S80 and (ratio with erl\$2) | US-PGPUB; USPAT | OR | ON | 2007/06/15 03:39 |
| S82 | 1 | S80 and (ratio with serl\$2) | US-PGPUB; USPAT | OR | ON | 2007/06/15 03:39 |
| S83 | 2 | S80 and (ratio with (serl\$2 erl\$2)) | US-PGPUB; USPAT | OR | ON | 2007/06/15 04:27 |
| S84 | 0 | S80 and (serle with double \$talk) | US-PGPUB; USPAT | OR | ON | 2007/06/15 04:28 |
| S85 | 0 | S80 and (serle with "double talk") | US-PGPUB; USPAT | OR | ON | 2007/06/15 04:28 |
| S86 | 4 | erle and failsafe | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/06/15 05:02 |
| S87 | 3 | ("5268834" "6195430" "6532454").PN. | USPAT | OR | OFF | 2007/06/17 16:58 |
| S88 | 4 | ("5009472" "5353348" "5365583" "5668871").PN. | USPAT | OR | OFF | 2007/06/17 17:00 |
| S89 | 1576 | 379/406.01-406.16.ccls. | USPAT | OR | OFF | 2007/06/17 17:02 |
| S90 | 1 | S89 and "non\$linear spectral subtraction" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/06/17 17:03 |
| S91 | 329 | S89 and ((background environmental) with noise) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/06/17 17:03 |
| S92 | 0 | S89 and \$4phone with gps | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/06/17 17:03 |
| S93 | 795 | 381/71.1-71.14.ccls. | USPAT | OR | OFF | 2007/06/17 17:03 |

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| S94 | 0 | S93 and "non\$linear spectral subtraction" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/06/17 17:03 |
| S95 | 14 | S93 and S89 and ((background environmental) with noise) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/06/17 17:03 |
| S96 | 0 | S93 and \$4phone with gps | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/06/17 17:03 |
| S97 | 223 | 381/66.ccls. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2007/06/17 17:03 |
| S98 | 0 | S93 and S89 and fail\$safe | USPAT | OR | OFF | 2007/06/17 17:04 |
| S99 | 10 | (echo adj cancel\$5) and fail \$safe | USPAT | OR | OFF | 2007/06/17 17:04 |
| S100 | 6 | ("5687229" "7046794" "7099458").pn. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/10/16 18:30 |
| S101 | 0 | "2005/0129223" and "wo97/07624" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/10/16 18:31 |
| S102 | 0 | "2005/0129223" or "wo97/07624" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/10/16 18:31 |
| S103 | 2 | "20050129223" or "wo9707624" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/10/16 18:31 |

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